

ABSTRACT

A lens array is arranged in front of the screen of an image display at a distance of S_1 . The lens array consists of lenses having focal lengths f_1 and f_2 . The focal length f_1 and f_2 and the distance S_1 determine the forming positions of first and second imaging planes. The first imaging plane is formed at a position of distance S_3 from the lens array and the second imaging plane is formed at a position of distance S_2 . More specifically, a pixel on the screen is imaged as a first imaging element of the first imaging plane at a position of S_1+S_3 from the screen and a pixel on the screen is imaged as a second imaging element of the second imaging plane at a position S_1+S_2 from the screen. A viewer can attain stereoscopic feeling when viewing them.